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IN THE CLAIMS:

Please amend the claims as follows:

1. (currently amended) A vacuum tube circuit for amplifying an input signal, comprising:

a vacuum tube having a cathode terminal, a plate terminal, and a grid terminal, the cathode terminal being heated by a heater for releasing electrons from the cathode terminal;

a low source voltage which is supplied to the plate terminal of the vacuum tube and the heater;

a first grid resistor which is ~~series~~ connected ~~to~~ between the grid terminal of the vacuum tube and an input signal source thereby creating a voltage drop by a flow of grid current; and

a positive voltage which supplied to the grid terminal through the grid resistor.

2. (original) A vacuum tube circuit as defined in Claim 1, further comprising a plate resistor which is connected to the plate terminal of the vacuum tube, wherein the low source voltage is supplied to the plate terminal through the plate resistor and to the heater.

3. (original) A vacuum tube circuit as defined in Claim 1, wherein the positive voltage supplied to the grid terminal of the vacuum tube is produced by dividing the low source voltage by a voltage divider.

Serial No. : 10/700,214
Filed : November 3, 2003

4. (original) A vacuum tube circuit as defined in Claim 3, wherein the voltage divider is configured by a variable resistor.

5. (original) A vacuum tube circuit as defined in Claim 3, further comprising a second grid resistor which is connected between the voltage divider and the first grid resistor.

6. (currently amended) A vacuum tube circuit as defined in Claim 1, wherein distortions are created by a characteristic of the vacuum tube and the first grid register to add specific sound effects to an input signal.

7. (currently amended) A vacuum tube circuit for amplifying an input signal, comprising:

a vacuum tube having a cathode terminal, a plate terminal, and a grid terminal, the cathode terminal being heated by a heater for releasing electrons from the cathode terminal;

a low source voltage which is supplied to the plate terminal of the vacuum tube and the heater;

a grid resistor which is ~~series~~ connected ~~to~~ between the grid terminal of the vacuum tube and an input signal source thereby creating a voltage drop by a flow of grid current;

a positive voltage which supplied to the grid terminal through the grid resistor; and

a bias control circuit which controls an output bias voltage of the vacuum tube to a predetermined voltage.

Serial No. : 10/700,214
Filed : November 3, 2003

8. (currently amended) A vacuum tube circuit as defined in Claim 7, the bias control circuit is configured by a negative feedback loop for automatically ~~control~~ controlling the output bias voltage to the predetermined voltage.

9. (original) A vacuum tube circuit as defined in Claim 7, the bias control circuit comprising:

a differential amplifier whose output is connected to the grid terminal of the vacuum tube through the grid resistor;
and

an integration circuit for averaging an output voltage at the plate terminal of the vacuum tube wherein the integration circuit is connected between the plate terminal and the differential amplifier.

10. (original) A vacuum tube circuit as defined in Claim 9, the predetermined voltage of the output bias voltage is determined by a reference voltage supplied to an inverting input terminal of the differential amplifier.

11. (original) A vacuum tube circuit as defined in Claim 9, the integration circuit provides an average value of the output voltage at the plate terminal to a non-inverting input terminal of the differential amplifier.

12. (original) A vacuum tube circuit as defined in Claim 7, further comprising a plate resistor which is connected to the plate terminal of the vacuum tube, wherein the low source voltage is

Serial No. : 10/700,214
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supplied to the plate terminal through the plate resistor and to the heater.

13. (original) A vacuum tube circuit as defined in Claim 7, wherein distortions are created by a characteristic of the vacuum tube and the grid register to add specific sound effects to an input signal.